

**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING
CURRICULUM OUTLINE - CLASS OF 2022, 2023, 2024**

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Freshman Year 1	MATH1341 Calculus 1 for Engrs. 4 CHEM1151 General Chem. for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE1000 Intro to Eng'g. 1 GE 1501 Cornerstone Eng. 1 4 ENGW1111 College Writing 4	MATH1342 Calculus 2 for Engrs. 4 PHYS1151 Physics 1 Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE 1502 Cornerstone Eng. 2 4 Elective General Elective 4	Vacation	Vacation
Year 2 (AA)	MATH2321 Calculus 3 for Engrs. 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 ME2350 Statics 4 Elective General Elective 1 4	MATH2341 Diff. Eq./ Lin. Alg. 4 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 ME2380 Thermodynamics 4 ME2381 Recitation for ME 2380 0 ENCP2000 Intro to Eng'g, Co-op 1 Elective General Elective 4	Vacation	Co-op
Year 2 (BB)	MATH2321 Calculus 3 for Engrs. 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 ME2350 Statics 4 ENCP2000 Intro to Eng'g, Co-op 1 Elective General Elective 4	Co-op	Co-op	Vacation
Year 3 (AA)	Co-op	ME2340 Material Science 4 ME2341 Lab for ME2340 1 ME3455 Dynamics 4 ME3456 Lab for ME3455 1 ME4508 ME Computation 4 *ENGW3302 Adv. Writing for Prof. 4	ME3475 Fluid Mech. 4 Elective General Elective 4	Co-op
Year 3 (BB)	MATH2341 Diff. Eq./ Lin. Alg. 4 ME2340 Material Science 4 ME2341 Lab for ME2340 1 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 ME2380 Thermodynamics 4 ME2381 Recitation for ME 2380 0	Co-op	Co-op	ME3475 Fluid Mech. 4 *ENGW3302 Adv. Writing for Prof. 4
Year 4 (AA)	Co-op	ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 1 ME4555 Sys. Anal. & Control 4 ME4570 Ther. Sys. Anal. Design 4 ENCP3000 Prof. Issues In Eng'g 1 **Science/Math Elective 4	ME4550 ME Design 4 MEIE4701 Capstone Design 1 Elective General Elective 4	Co-op
Year 4 (BB)	ME3455 Dynamics 4 ME3456 Lab for ME3455 1 ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 1 ME4508 ME Comp. 4 ME4570 Ther. Sys. Anal. Design 4	Co-op	Co-op	ME4550 ME Design 4 MEIE4701 Capstone 1 1 Elective General Elective 4
Year 5 (AA)	Co-op	MEIE4702 Capstone Design 2 5 Elective MIE Technical Elective 4 EECE2210 Elect. Engineering 4 EECE2211 Lab for EECE2210 1 Elective General Elective 4		
Year 5 (BB)	EECE2210 Elec. Engineering 4 EECE2211 Lab for EECE2210 1 ME4555 Syst. Analysis & Control 4 MEIE4702 Capstone Design 2 5 ENCP3000 Prof. Issues in Eng'g 1 Elective General Elective 4	Elective MIE Technical Elective 4 **Science/Math Elective 4 Elective General Elective 4 Elective General Elective 4		

Revised 4/1/2019

[* ENGW3315](#) is an acceptable substitution for engineering majors.

** Science/Math Elective - Please consult with your academic advisor for the complete list of acceptable courses.

NUpath requirements, Interpreting Culture (IC), Societies and Institutions (SI) and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use General Electives to do so. General Electives are academic, non-remedial, non-repetitive courses.

MIE Technical Elective - 1 required - Any ME, IE or EMGT class that is not part of the Mechanical Engineering core curriculum.

Electives may be interchanged.

[Please consult with your Academic Advisor, found here.](#)

The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.